



June 2008

DEPARTMENT OF EDUCATION
2007–2008 School Year Reports

Dear School Board Members and School Personnel:

The Maine Educational Assessment (MEA) is the State's measure of student progress in achieving the State standards known as *Learning Results*, adopted by the Maine Legislature in 1997. These *Learning Results* established goals for what all students should know and be able to do at certain times in their school careers and are the basis for Grade Level/Span Expectations, which describe the assessment standards for each grade. The MEA is administered to students in all grades 3 through 8 to meet state assessment requirements and the requirements of the federal *No Child Left Behind Act*.

The 2007-2008 MEA summary reports contain the results of student achievement in reading and mathematics at all grades, science and technology at grades 4 and 8, and writing at grade 5 based on achievement standards set in 2006 and disaggregated by student and school characteristics. This report, together with MEA individual student and subject-specific class analysis reports, provides support for use in program evaluation and planning.

MEA results reflect scores based on test questions that are taken in common by the approximately 15,000 students in each grade level. Students' scores in each content area are based on answers to a combination of multiple-choice questions and questions that require students to construct an answer. The grade 5 writing reports provide information on a student's ability to respond to a prompt measuring narrative writing. More information about the design of the MEA is available at www.maine.gov/education/mea/index.htm.

I look forward to working with you in support of our continued efforts to improve the quality and effectiveness of the instructional opportunities designed to help all students achieve the high standards of the *Learning Results* and demonstrate that achievement through performance on the Maine Educational Assessment.

Sincerely,

Susan A. Gendron
Commissioner of Education



School Report Grade 4

Test Date: March 2008
Code: 11231328
SAU: Orono School Department
School: Asa C Adams School

Contents of the Report

The report is divided into two main sections including a section describing the students tested and a separate section for the results in each content area.

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SUMMARY OF SCORES

Test Date: March 2008

Grade: 4

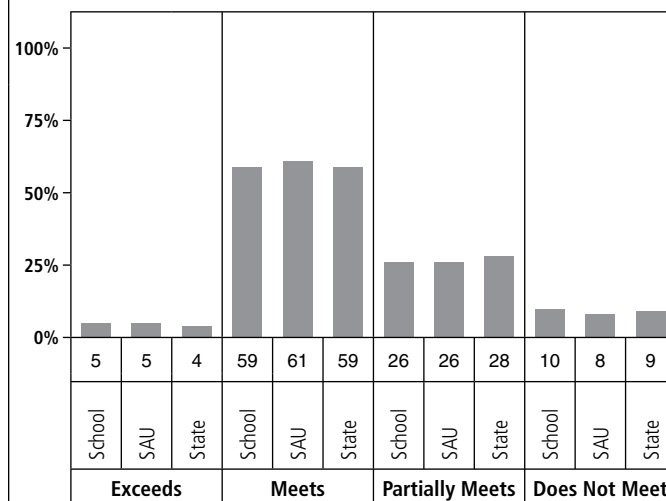
SAU: Orono School Department

School: Asa C Adams School

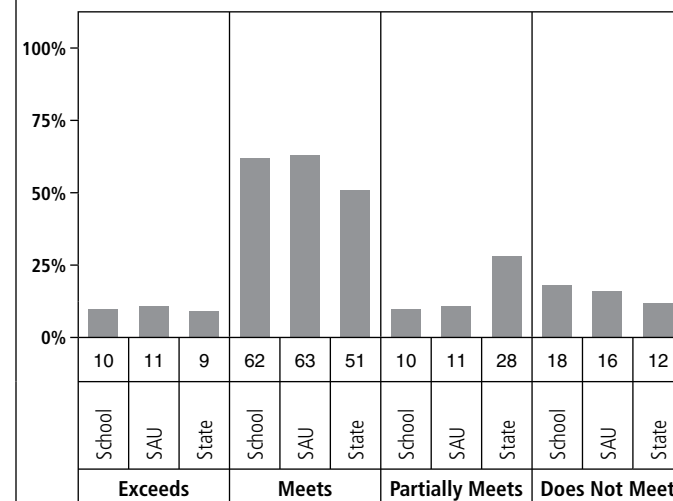
Summary of School, SAU, and State Scores

Year	Average Scaled Score		
	School	SAU	State
ELA – Reading			
2005–2006	446	446	444
2006–2007	450	450	445
2007–2008	446	447	445
Cum. Avg. *	448	448	445
Mathematics			
2005–2006	449	449	444
2006–2007	452	452	445
2007–2008	446	446	445
Cum. Avg. *	449	449	445
Science & Technology			
2005–2006	443	443	444
2006–2007	449	449	444
2007–2008	444	445	444
Cum. Avg. *	446	446	444

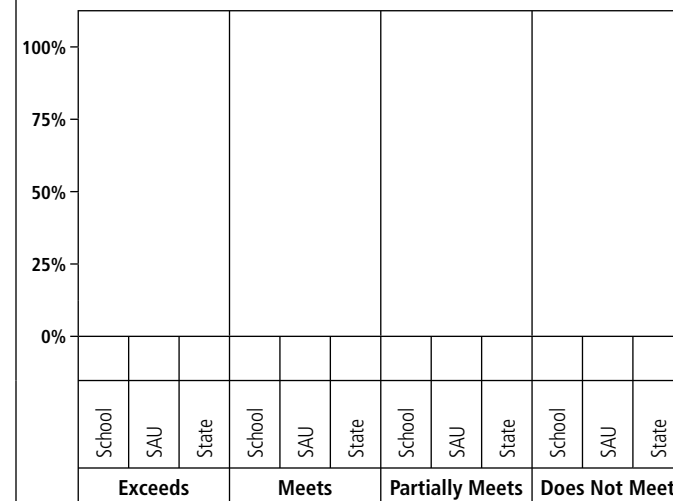
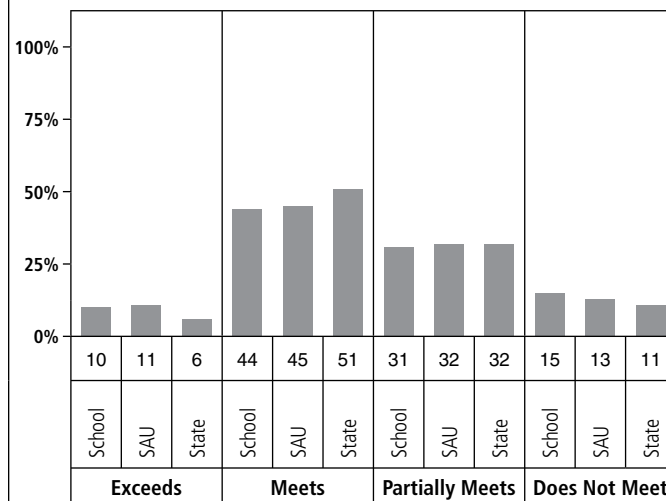
ELA – READING



MATHEMATICS



SCIENCE AND TECHNOLOGY



*Cumulative averages are weighted, i.e., the scaled scores are averaged proportionally based on the numbers of students in each year.

SUMMARY OF STUDENT PARTICIPATION

Test Date: March 2008
Grade: 4
SAU: Orono School Department
School: Asa C Adams School

CATEGORY OF PARTICIPATION	Enrollment ¹ during testing window						CONTENT AREA PARTICIPATION ²																							
							ELA-Reading						Mathematics						Science and Technology											
	School		SAU		State		School		SAU		State		School		SAU		State		School		SAU		State		School		SAU		State	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Total number of students	39	100	38	100	14207	100	39	100	38	100	14181	100	39	100	38	100	14123	100	39	100	38	100	14115	99						
Ethnicity African American/Black	0	0	0	0	390	3	0	0	0	0	388	99	0	0	0	0	388	99	0	0	0	0	386	99						
American Indian or Native Alaskan	0	0	0	0	101	1	0	0	0	0	101	100	0	0	0	0	101	100	0	0	0	0	101	100						
Asian or Pacific Islander	1	3	1	3	263	2	1	100	1	100	259	98	1	100	1	100	262	100	1	100	1	100	262	100						
Hispanic	0	0	0	0	170	1	0	0	0	0	168	99	0	0	0	0	166	98	0	0	0	0	166	98						
Caucasian/White	38	97	37	97	13282	93	38	100	37	100	13264	100	38	100	37	100	13205	100	38	100	37	100	13199	99						
Not Reported	0	0	0	0	1	0	0	0	0	0	1	100	0	0	0	0	1	100	0	0	0	0	1	100						
Identified disability	7	18	7	18	2524	18	7	100	7	100	2514	100	7	100	7	100	2498	99	7	100	7	100	2494	99						
Current LEP	0	0	0	0	385	3	0	0	0	0	377	98	0	0	0	0	383	99	0	0	0	0	380	99						
Economically disadvantaged	11	28	11	29	5587	39	11	100	11	100	5569	100	11	100	11	100	5538	99	11	100	11	100	5534	99						
Migrant	0	0	0	0	5	0	0	0	0	0	5	100	0	0	0	0	5	100	0	0	0	0	5	100						

MODE OF PARTICIPATION ³	ELA-Reading						Mathematics						Science and Technology											
	School		SAU		State		School		SAU		State		School		SAU		State		School		SAU		State	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Participation without accommodations	33	85	32	84	10755	76	34	87	33	87	10730	76	34	87	33	87	10776	76						
Identified disability (PET/IEP)	1	3	1	3	375	3	2	6	2	6	374	3	2	6	2	6	384	4						
LEP	0	0	0	0	148	1	0	0	0	0	148	1	0	0	0	0	150	1						
504 plan	0	0	0	0	114	1	0	0	0	0	114	1	0	0	0	0	115	1						
Participation with accommodations	6	15	6	16	3298	23	5	13	5	13	3267	23	5	13	5	13	3215	23						
Identified disability (PET/IEP)	6	100	6	100	2013	61	5	100	5	100	1998	61	5	100	5	100	1986	62						
LEP	0	0	0	0	225	7	0	0	0	0	233	7	0	0	0	0	229	7						
504 plan	0	0	0	0	69	2	0	0	0	0	68	2	0	0	0	0	67	2						
Other	0	0	0	0	1046	32	0	0	0	0	1023	31	0	0	0	0	987	31						
Participation through alternate assessment (PAAP)	0	0	0	0	126	1	0	0	0	0	126	1	0	0	0	0	124	1						
Identified disability (PET/IEP)	0	0	0	0	126	100	0	0	0	0	126	100	0	0	0	0	124	100						
LEP	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	1	1						
504 plan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
Approved non-participation in reading – 1st year LEP	0	0	0	0	2	0																		
Approved non-participation – special consideration	0	0	0	0	15	0	0	0	0	0	16	0	0	0	0	0	12	0						
Non-participation – other	0	0	0	0	11	0	0	0	0	0	68	0	0	0	0	0	80	1						

¹ Percents are the percentage of students enrolled in each participation category.

² Percents are the percentage of students, including those who participated through alternate assessment (PAAP), who participated in the content area.

³ Percents are the percentage of students in each content area by mode.

ELA–READING RESULTS

Test Date: March 2008
Grade: 4
SAU: Orono School Department
School: Asa C Adams School

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
Exceeds the Standards – The student’s work demonstrates the ability to read and interpret literary and informational texts appropriate for the grade level by drawing in-depth inferences, analyzing texts for subtle clues, synthesizing information across texts, and using his/her knowledge of text features and literary devices to make deeper connections within or across texts to increase comprehension. (scaled score 461–480)	2005-2006	2	5	2	5	601	4
	2006-2007	5	9	5	9	507	4
	2007-2008	2	5	2	5	559	4
	Cum. Total*	9	7	9	7	1667	4
Meets the Standards – The student’s work demonstrates the ability to read and interpret literary and informational texts appropriate for the grade level by drawing inferences, summarizing main ideas and providing supporting details, connecting ideas within and across texts, and using his/her knowledge of text features and literary devices to increase comprehension. (scaled score 441–460)	2005-2006	32	74	32	74	7910	57
	2006-2007	41	76	41	76	8749	63
	2007-2008	23	59	23	61	8308	59
	Cum. Total*	96	71	96	71	24967	60
Partially Meets the Standards – The student’s work demonstrates an inconsistent ability to read and interpret literary and informational texts appropriate for the grade level. The student’s ability to draw inferences, summarize main ideas and provide supporting details, connect ideas within and across texts, and use his/her knowledge of text features and literary devices varies depending on the texts. (scaled score 431–440)	2005-2006	8	19	8	19	3970	29
	2006-2007	6	11	6	11	3467	25
	2007-2008	10	26	10	26	3922	28
	Cum. Total*	24	18	24	18	11359	27
Does Not Meet the Standards – The student’s work demonstrates a limited ability to read and interpret literary and informational texts appropriate for the grade level. The student’s responses are often vague or incorrect leaving the impression that the student found it difficult to draw inferences, summarize main ideas and provide supporting details, connect ideas within and across texts, or use his/her knowledge of text features and literary devices to support comprehension. (scaled score 400–430)	2005-2006	1	2	1	2	1421	10
	2006-2007	2	4	2	4	1165	8
	2007-2008	4	10	3	8	1264	9
	Cum. Total*	7	5	6	4	3850	9

Learning Results Content Standard Cluster	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
Total Reading Cluster	48	100	30.7	64.0	31.4	65.4	29.7	61.9
Literary Text	24	50	16.2	67.5	16.6	69.2	15.5	64.6
Informational Text	24	50	14.5	60.4	14.8	61.7	14.2	59.2

The Maine *Learning Results* reading cluster includes Content Standards A (Process of Reading), B (Literature and Culture), and D (Informational Texts). The MEA assesses students’ reading skills based on questions related to two types of reading passages: literary and informational. Passages include both long and short texts, selected from developmentally appropriate works. Items on the MEA measure Grade Level Expectations, based on Maine’s 1997 *Learning Results*, which can be found at <http://www.maine.gov/education/lsalt/gles.htm>.

ELA-READING RESULTS

(CONTINUED)

Test Date: March 2008
 Grade: 4
 SAU: Orono School Department
 School: Asa C Adams School

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
All Students	39	2	5	23	59	10	26	4	10	446	38	5	61	26	8	447	14053	4	59	28	9	445
Ethnicity																						
African American/Black	0										0						384	1	36	35	28	438
American Indian or Native Alaskan	0										0						101	1	46	44	10	442
Asian or Pacific Islander	1										1						259	6	61	22	11	445
Hispanic	0										0						164	0	45	38	16	440
Caucasian/White	38	2	5	23	61	9	24	4	11	446	37	5	62	24	8	447	13144	4	60	28	8	445
Not Reported	0										0						1					
Identified disability																						
Yes	7	0	0	1	14	4	57	2	29	436	7	0	14	57	29	436	2388	0	29	44	26	437
No	32	2	6	22	69	6	19	2	6	448	31	6	71	19	3	450	11665	5	65	25	6	446
Current LEP																						
Yes	0										0						373	1	32	35	32	436
No	39	2	5	23	59	10	26	4	10	446	38	5	61	26	8	447	13680	4	60	28	8	445
Economically disadvantaged																						
Yes	11	0	0	5	45	3	27	3	27	441	11	0	45	27	27	441	5502	1	47	37	14	441
No	28	2	7	18	64	7	25	1	4	448	27	7	67	26	0	449	8551	6	67	22	5	447
Migrant																						
Yes	0										0						5	0	40	60	0	445
No	39	2	5	23	59	10	26	4	10	446	38	5	61	26	8	447	14048	4	59	28	9	445
Gender																						
Female	25	2	8	13	52	6	24	4	16	445	24	8	54	25	13	447	6959	5	61	26	8	446
Male	14	0	0	10	71	4	29	0	0	447	14	0	71	29	0	447	7093	3	57	30	10	444
Not Reported	0										0						1					
Title 1A targeted program																						
Yes	11	0	0	4	36	5	45	2	18	437	10	0	40	50	10	441	1890	0	37	46	17	439
No	28	2	7	19	68	5	18	2	7	449	28	7	68	18	7	449	12163	5	63	25	8	446
Gifted/talented program																						
Yes	3										3						266	21	74	4	0	456
No	36	1	3	21	58	10	28	4	11	445	35	3	60	29	9	446	13787	4	59	28	9	445

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number

ELA–READING RESULTS

(QUESTIONNAIRE ITEMS)

Test Date: March 2008

Grade: 4

SAU: Orono School Department

School: Asa C Adams School

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%	
How much homework do you do on school nights?																						
A. none	3	0	0	0	0	0	0	1	100	430	3	0	0	0	100	430	5	1	42	36	21	440
B. less than one hour	79	2	6	19	61	8	26	2	6	447	79	7	63	27	3	448	74	4	62	27	7	445
C. one to two hours	10	0	0	3	75	1	25	0	0	448	11	0	75	25	0	448	18	5	59	29	7	446
D. more than two hours	8	0	0	1	33	1	33	1	33	442	8	0	33	33	33	442	2	3	32	34	31	438
How well do the questions that you have just been given on this MEA test match what you have learned in school about reading?																						
A. The questions on the test match what I have learned in reading class.	23	1	11	5	56	3	33	0	0	448	24	11	56	33	0	448	30	6	63	24	7	446
B. They match some of what I have learned.	51	1	5	14	70	4	20	1	5	447	50	5	74	21	0	450	52	4	63	27	6	446
C. They match just a little of what I have learned.	13	0	0	3	60	1	20	1	20	446	13	0	60	20	20	446	12	2	46	37	15	441
D. There is no match.	13	0	0	1	20	2	40	2	40	437	13	0	20	40	40	437	5	0	33	40	26	437
Which of the following best describes how you rate yourself as a student in reading?																						
A. very good	49	2	11	11	58	4	21	2	11	447	50	11	58	21	11	447	35	7	66	20	6	448
B. good	33	0	0	10	77	2	15	1	8	450	34	0	77	15	8	450	51	3	60	29	7	445
C. fair	13	0	0	2	40	2	40	1	20	434	11	0	50	50	0	443	12	1	44	40	16	440
D. poor	5	0	0	0	0	2	100	0	0	440	5	0	0	100	0	440	2	0	23	47	30	436
How hard was the reading part of this test?																						
A. harder than my regular schoolwork	19	0	0	1	14	3	43	3	43	433	17	0	17	50	33	439	19	2	46	34	17	442
B. about the same as my regular schoolwork	53	1	5	14	74	3	16	1	5	449	54	5	74	16	5	449	62	5	64	26	5	446
C. easier than my regular schoolwork	28	1	10	6	60	3	30	0	0	448	29	10	60	30	0	448	18	3	58	29	10	444
How hard were the reading passages on this test?																						
A. Most of the passages were more difficult than what I usually read.	18	0	0	4	57	2	29	1	14	443	18	0	57	29	14	443	14	0	32	46	22	438
B. Most of the passages were about the same as what I usually read.	33	0	0	9	69	3	23	1	8	446	32	0	75	25	0	450	52	3	62	28	7	445
C. Most of the passages were easier than what I usually read.	49	2	11	10	53	5	26	2	11	447	50	11	53	26	11	447	33	7	68	20	5	448
How much time do you spend reading at home each day?																						
A. more than one hour	23	0	0	6	67	2	22	1	11	442	21	0	75	25	0	447	18	7	64	22	7	447
B. 20 minutes to an hour	56	2	9	14	64	5	23	1	5	449	58	9	64	23	5	449	55	4	64	26	6	446
C. less than 20 minutes	5	0	0	0	0	1	50	1	50	435	5	0	0	50	50	435	14	2	53	33	12	443
D. I rarely read at home.	15	0	0	3	50	2	33	1	17	444	16	0	50	33	17	444	13	1	44	39	16	441
How many pages do you read in school and to complete homework assignments?																						
A. five or fewer pages	16	0	0	3	50	1	17	2	33	439	17	0	50	17	33	439	23	3	50	34	13	442
B. six to ten pages	27	0	0	6	60	3	30	1	10	443	25	0	67	33	0	448	25	3	60	29	8	444
C. eleven or more pages	57	2	10	14	67	4	19	1	5	450	58	10	67	19	5	450	52	5	64	24	6	446
Optional school/SAU question																						
A.	0										0											
B.	0										0											
C.	0										0											
D.	0										0											

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

N = Number

MATHEMATICS RESULTS

Test Date: March 2008
Grade: 4
SAU: Orono School Department
School: Asa C Adams School

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
Exceeds the Standards – The student’s work demonstrates in-depth understanding of essential concepts in mathematics, including the ability to make multiple connections among central ideas. The student’s responses demonstrate the ability to synthesize information; analyze and solve difficult problems, including developing and implementing strategies, efficiently and accurately performing procedures, and recording and justifying solutions; and explain complex concepts. (scaled score 461–480)	2005-2006	6	14	6	14	1294	9
	2006-2007	14	25	14	25	1054	8
	2007-2008	4	10	4	11	1321	9
	Cum. Total*	24	18	24	18	3669	9
Meets the Standards – The student’s work demonstrates a general understanding of essential concepts in mathematics, including the ability to make connections among central ideas. The student’s responses demonstrate the ability to analyze and solve problems including developing and implementing strategies, to perform procedures, and to record and explain solutions and concepts. The student’s work may contain minor errors. (scaled score 441–460)	2005-2006	28	65	28	65	7000	50
	2006-2007	27	49	27	49	7394	53
	2007-2008	24	62	24	63	7079	51
	Cum. Total*	79	58	79	58	21473	51
Partially Meets the Standards – The student’s work demonstrates incomplete understanding of essential concepts in mathematics and inconsistent connections among central ideas. The student’s responses demonstrate some ability to analyze and solve problems, and explain concepts. Problem solving strategies may be flawed, procedures performed inaccurately, methods not recorded and/or problems not completed. (scaled score 429–440)	2005-2006	6	14	6	14	3784	27
	2006-2007	11	20	11	20	3729	27
	2007-2008	4	10	4	11	3955	28
	Cum. Total*	21	15	21	15	11468	27
Does Not Meet the Standards – The student’s work demonstrates limited understanding of essential concepts in mathematics and infrequent or inaccurate connections among central ideas. The student’s responses demonstrate minimal ability to solve problems and explain concepts. Problem solving strategies and procedures are often flawed or inappropriate and there may be many omissions. (scaled score 400–428)	2005-2006	3	7	3	7	1894	14
	2006-2007	3	5	3	5	1735	12
	2007-2008	7	18	6	16	1642	12
	Cum. Total*	13	9	12	9	5271	13

Learning Results Content Standard Clusters	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
Cluster 1: Numbers and Operations	15	31	10.0	66.7	10.2	68.0	9.5	63.3
Cluster 2: Shape and Size	14	29	9.0	64.3	9.0	64.3	9.1	65.0
Cluster 3: Mathematical Decision Making	5	10	3.2	64.0	3.2	64.0	3.4	68.0
Cluster 4: Patterns	14	29	9.9	70.7	10.1	72.1	9.7	69.3

- Cluster 1: Numbers and Operations**
 A. Numbers and Number Sense
 B. Computation
 I. Discrete Mathematics (grades 3 and 4 only)
- Cluster 2: Shape and Size**
 E. Geometry
 F. Measurement
- Cluster 3: Mathematical Decision Making**
 C. Data Analysis and Statistics
 D. Probability
- Cluster 4: Patterns**
 G. Patterns, Relations, and Functions
 H. Algebra Concepts
 K. Mathematical Communication

Each content standard in the clusters above is defined in Maine’s 1997 *Learning Results*, which are the basis for Grade Level Expectations. Each item on the MEA measures a grade level expectation, which can be found at <http://www.maine.gov/education/lsalt/gles.htm>.

MATHEMATICS RESULTS

(CONTINUED)

Test Date: March 2008
 Grade: 4
 SAU: Orono School Department
 School: Asa C Adams School

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
All Students	39	4	10	24	62	4	10	7	18	446	38	11	63	11	16	446	13997	9	51	28	12	445
Ethnicity																						
African American/Black	0										0						386	4	26	34	36	434
American Indian or Native Alaskan	0										0						101	3	46	41	11	442
Asian or Pacific Islander	1										1						262	14	51	23	12	447
Hispanic	0										0						162	4	41	34	21	440
Caucasian/White	38	4	11	24	63	4	11	6	16	446	37	11	65	11	14	447	13085	10	51	28	11	446
Not Reported	0										0						1					
Identified disability																						
Yes	7	0	0	2	29	3	43	2	29	431	7	0	29	43	29	431	2372	3	31	36	30	436
No	32	4	13	22	69	1	3	5	16	449	31	13	71	3	13	450	11625	11	54	27	8	447
Current LEP																						
Yes	0										0						381	4	33	28	35	435
No	39	4	10	24	62	4	10	7	18	446	38	11	63	11	16	446	13616	10	51	28	11	445
Economically disadvantaged																						
Yes	11	0	0	4	36	2	18	5	45	433	11	0	36	18	45	433	5472	5	41	35	19	440
No	28	4	14	20	71	2	7	2	7	451	27	15	74	7	4	452	8525	13	56	24	7	448
Migrant																						
Yes	0										0						5	0	80	20	0	448
No	39	4	10	24	62	4	10	7	18	446	38	11	63	11	16	446	13992	9	51	28	12	445
Gender																						
Female	25	2	8	16	64	1	4	6	24	444	24	8	67	4	21	445	6933	9	50	29	12	445
Male	14	2	14	8	57	3	21	1	7	449	14	14	57	21	7	449	7063	10	51	27	11	446
Not Reported	0										0						1					
Title 1A targeted program																						
Yes	11	0	0	5	45	1	9	5	45	437	10	0	50	10	40	438	1890	2	34	41	23	438
No	28	4	14	19	68	3	11	2	7	450	28	14	68	11	7	450	12107	11	53	26	10	446
Gifted/talented program																						
Yes	3										3						266	45	49	5	0	461
No	36	2	6	23	64	4	11	7	19	445	35	6	66	11	17	445	13731	9	51	29	12	445

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number

MATHEMATICS RESULTS

(QUESTIONNAIRE ITEMS)

Test Date: March 2008
Grade: 4
SAU: Orono School Department
School: Asa C Adams School

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%	
How much homework do you do on school nights?																						
A. none	3	0	0	0	0	0	0	1	100	408	3	0	0	0	100	408	5	6	34	33	27	438
B. less than one hour	79	4	13	19	61	4	13	4	13	448	79	13	63	13	10	449	74	10	52	28	10	446
C. one to two hours	10	0	0	3	75	0	0	1	25	446	11	0	75	0	25	446	18	10	52	28	10	446
D. more than two hours	8	0	0	2	67	0	0	1	33	439	8	0	67	0	33	439	2	5	33	28	34	436
How well do the questions that you have just been given on this MEA test match what you have learned in school about mathematics?																						
A. The questions on the test match what I have learned in mathematics class.	41	1	6	12	75	1	6	2	13	449	42	6	75	6	13	449	38	13	56	23	8	448
B. They match some of what I have learned.	41	2	13	9	56	2	13	3	19	444	39	13	60	13	13	445	48	8	52	29	10	445
C. They match just a little of what I have learned.	8	1	33	1	33	1	33	0	0	456	8	33	33	33	0	456	10	4	35	39	22	439
D. There is no match.	10	0	0	2	50	0	0	2	50	435	11	0	50	0	50	435	4	2	25	33	40	433
Which of the following best describes how you rate yourself as a student in mathematics?																						
A. very good	41	3	19	9	56	3	19	1	6	449	42	19	56	19	6	449	35	16	55	20	8	449
B. good	44	1	6	13	76	0	0	3	18	448	42	6	81	0	13	450	48	7	52	31	11	445
C. fair	13	0	0	2	40	1	20	2	40	436	13	0	40	20	40	436	14	3	41	38	18	440
D. poor	3	0	0	0	0	0	0	1	100	418	3	0	0	0	100	418	3	1	29	36	34	435
How hard was the mathematics part of this test?																						
A. harder than my regular schoolwork	11	0	0	3	75	0	0	1	25	444	11	0	75	0	25	444	15	4	38	33	25	439
B. about the same as my regular schoolwork	68	4	15	14	54	3	12	5	19	447	68	16	56	12	16	447	64	10	54	28	9	446
C. easier than my regular schoolwork	21	0	0	7	88	1	13	0	0	450	22	0	88	13	0	450	21	13	52	24	11	447
How often do you use hands-on materials in mathematics class?																						
A. almost every day	13	0	0	3	60	1	20	1	20	440	13	0	60	20	20	440	23	8	47	29	16	443
B. two or three days a week	44	2	12	10	59	2	12	3	18	447	42	13	63	13	13	448	36	11	54	27	9	447
C. two or three times each month	33	1	8	10	77	1	8	1	8	450	34	8	77	8	8	450	25	10	53	27	10	446
D. never or almost never	10	1	25	1	25	0	0	2	50	438	11	25	25	0	50	438	16	9	46	32	13	444
How often do you use calculators in mathematics class?																						
A. almost every day	5	0	0	2	100	0	0	0	0	448	5	0	100	0	0	448	5	3	30	33	33	436
B. two or three days a week	10	1	25	2	50	0	0	1	25	454	11	25	50	0	25	454	19	8	50	30	12	445
C. two or three times each month	51	2	10	11	55	3	15	4	20	445	50	11	58	16	16	445	38	11	55	26	8	447
D. never or almost never	33	1	8	9	69	1	8	2	15	446	34	8	69	8	15	446	38	9	50	29	12	445
On average, how many minutes a day do you spend working on mathematics in class?																						
A. less than 30 minutes	10	1	25	1	25	1	25	1	25	444	11	25	25	25	25	444	8	3	33	38	25	438
B. 30–45 minutes	28	0	0	6	55	2	18	3	27	440	26	0	60	20	20	441	27	6	48	33	13	443
C. 45–60 minutes	44	3	18	12	71	1	6	1	6	454	45	18	71	6	6	454	38	11	54	26	9	447
D. more than 60 minutes	18	0	0	5	71	0	0	2	29	438	18	0	71	0	29	438	26	13	55	23	9	448
Optional school/SAU question																						
A.	0										0											
B.	0										0											
C.	0										0											
D.	0										0											

SCIENCE AND TECHNOLOGY RESULTS

Test Date: March 2008
Grade: 4
SAU: Orono School Department
School: Asa C Adams School

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
Exceeds the Standards – The student’s work demonstrates in-depth understanding of essential concepts in science, including the ability to make multiple connections among central ideas. The student’s responses demonstrate the ability to synthesize information, analyze and solve difficult problems using the processes of scientific inquiry, and explain complex concepts using evidence and proper terminology to support and communicate logical conclusions. (scaled score 461–480)	2005-2006	1	2	1	2	751	5
	2006-2007	6	11	6	11	963	7
	2007-2008	4	10	4	11	882	6
	Cum. Total*	11	8	11	8	2596	6
Meets the Standards – The student’s work demonstrates a general understanding of essential concepts in science, including the ability to make connections among central ideas. The student’s responses demonstrate the ability to analyze and solve routine problems using the processes of scientific inquiry and explain central concepts with sufficient clarity and accuracy to demonstrate general understanding. (scaled score 441–460)	2005-2006	22	51	22	51	7251	52
	2006-2007	33	60	33	60	6824	49
	2007-2008	17	44	17	45	7130	51
	Cum. Total*	72	53	72	53	21205	51
Partially Meets the Standards – The student’s work demonstrates incomplete understanding of essential concepts in science and inconsistent connections among central ideas. The student’s responses demonstrate some ability to analyze and solve problems using scientific inquiry but the quality of responses is inconsistent. Explanation of concepts may be incomplete or unclear. (scaled score 429–440)	2005-2006	18	42	18	42	4514	32
	2006-2007	14	25	14	25	4382	32
	2007-2008	12	31	12	32	4433	32
	Cum. Total*	44	32	44	32	13329	32
Does Not Meet the Standards – The student’s work demonstrates limited understanding of essential concepts in science and infrequent or inaccurate connections among central ideas. The student’s responses demonstrate minimal ability to solve problems and use the skills of scientific inquiry. There are many inaccuracies and explanations are illogical, incomplete, or missing. (scaled score 400–428)	2005-2006	2	5	2	5	1458	10
	2006-2007	2	4	2	4	1735	12
	2007-2008	6	15	5	13	1546	11
	Cum. Total*	10	7	9	7	4739	11

Learning Results Content Standard Clusters	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
Cluster 1: Life Sciences	12	25	7.9	65.8	8.1	67.5	8.0	66.7
Cluster 2: Physical Sciences	12	25	6.4	53.3	6.5	54.2	7.2	60.0
Cluster 3: Earth and Space Sciences	12	25	8.2	68.3	8.4	70.0	7.4	61.7
Cluster 4: Nature and Implications of Science	12	25	7.9	65.8	8.0	66.7	7.6	63.3

Cluster 1: Life Sciences

- A. Classifying Life Forms
- B. Ecology
- C. Cells

Cluster 2: Physical Sciences

- E. Structure of Matter
- H. Energy
- I. Motion

Cluster 3: Earth and Space Sciences

- D. Continuity and Change
- F. The Earth
- G. The Universe

Cluster 4: Nature and Implications of Science

- J. Inquiry and Problem Solving
- K. Scientific Reasoning
- L. Communication
- M. Implications of Science & Technology

Each content standard in the clusters shown is defined in Maine’s 1997 *Learning Results*, which are the basis for science and technology Grade Span Expectations. Each item on the MEA measures a grade span expectation, which can be found at <http://www.maine.gov/education/lslt/gles.htm>.

SCIENCE AND TECHNOLOGY RESULTS

(CONTINUED)

Test Date: March 2008
Grade: 4
SAU: Orono School Department
School: Asa C Adams School

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
All Students	39	4	10	17	44	12	31	6	15	444	38	11	45	32	13	445	13991	6	51	32	11	444
Ethnicity																						
African American/Black	0										0						385	2	27	35	36	434
American Indian or Native Alaskan	0										0						101	3	44	44	10	441
Asian or Pacific Islander	1										1						262	5	52	28	14	443
Hispanic	0										0						162	2	38	39	21	439
Caucasian/White	38	4	11	17	45	11	29	6	16	444	37	11	46	30	14	445	13080	7	52	31	10	444
Not Reported	0										0						1					
Identified disability																						
Yes	7	0	0	1	14	3	43	3	43	431	7	0	14	43	43	431	2370	2	32	41	25	437
No	32	4	13	16	50	9	28	3	9	447	31	13	52	29	6	448	11621	7	55	30	8	445
Current LEP																						
Yes	0										0						379	1	25	35	39	433
No	39	4	10	17	44	12	31	6	15	444	38	11	45	32	13	445	13612	6	52	32	10	444
Economically disadvantaged																						
Yes	11	0	0	4	36	2	18	5	45	434	11	0	36	18	45	434	5470	3	41	39	18	440
No	28	4	14	13	46	10	36	1	4	448	27	15	48	37	0	450	8521	9	57	27	7	446
Migrant																						
Yes	0										0						5	20	20	40	20	443
No	39	4	10	17	44	12	31	6	15	444	38	11	45	32	13	445	13986	6	51	32	11	444
Gender																						
Female	25	0	0	12	48	8	32	5	20	441	24	0	50	33	17	442	6929	6	49	33	12	443
Male	14	4	29	5	36	4	29	1	7	451	14	29	36	29	7	451	7061	7	53	30	10	444
Not Reported	0										0						1					
Title 1A targeted program																						
Yes	11	0	0	3	27	5	45	3	27	437	10	0	30	50	20	439	1888	1	32	44	23	437
No	28	4	14	14	50	7	25	3	11	447	28	14	50	25	11	447	12103	7	54	30	9	445
Gifted/talented program																						
Yes	3										3						266	30	65	5	1	457
No	36	3	8	15	42	12	33	6	17	443	35	9	43	34	14	443	13725	6	51	32	11	444

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number

SCIENCE AND TECHNOLOGY RESULTS

(QUESTIONNAIRE ITEMS)

Test Date: March 2008

Grade: 4

SAU: Orono School Department

School: Asa C Adams School

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%	
How much homework do you do on school nights?																						
A. none	3	0	0	0	0	0	0	1	100	404	3	0	0	0	100	404	5	4	37	36	22	439
B. less than one hour	79	3	10	14	45	10	32	4	13	446	79	10	47	33	10	447	74	6	53	31	10	444
C. one to two hours	10	1	25	2	50	1	25	0	0	449	11	25	50	25	0	449	18	7	52	32	8	445
D. more than two hours	8	0	0	1	33	1	33	1	33	438	8	0	33	33	33	438	2	4	31	33	32	437
How well do the questions that you have just been given on this MEA test match what you have learned in school about science?																						
A. The questions on the test match what I have learned in science class.	33	0	0	6	46	7	54	0	0	445	34	0	46	54	0	445	24	9	53	28	10	446
B. They match some of what I have learned.	41	2	13	6	38	4	25	4	25	442	39	13	40	27	20	444	49	6	54	31	9	445
C. They match just a little of what I have learned.	13	2	40	2	40	0	0	1	20	451	13	40	40	0	20	451	21	4	47	36	13	442
D. There is no match.	13	0	0	3	60	1	20	1	20	443	13	0	60	20	20	443	6	2	35	37	25	438
Which of the following best describes how you rate yourself as a student in science?																						
A. very good	26	0	0	6	60	2	20	2	20	444	26	0	60	20	20	444	25	9	53	27	10	446
B. good	41	3	19	5	31	7	44	1	6	449	42	19	31	44	6	449	54	6	55	30	9	445
C. fair	21	1	13	4	50	2	25	1	13	441	21	13	50	25	13	441	19	3	43	40	15	441
D. poor	13	0	0	2	40	1	20	2	40	436	11	0	50	25	25	441	3	2	28	42	29	435
How difficult was the science part of this test?																						
A. harder than my regular schoolwork	33	3	25	5	42	3	25	1	8	448	34	25	42	25	8	448	22	5	45	35	15	442
B. about the same as my regular schoolwork	53	1	5	9	47	5	26	4	21	445	51	6	50	28	17	446	62	7	53	31	9	445
C. easier than my regular schoolwork	14	0	0	2	40	3	60	0	0	444	14	0	40	60	0	444	16	7	52	28	13	444
How often do you have science classes?																						
A. every day	62	3	13	9	38	10	42	2	8	445	63	13	38	42	8	445	24	7	48	33	12	444
B. a few times a week	21	1	13	6	75	0	0	1	13	449	18	14	86	0	0	453	53	7	54	31	9	445
C. once a week	5	0	0	2	100	0	0	0	0	457	5	0	100	0	0	457	9	6	46	33	15	442
D. a few times a month	13	0	0	0	0	2	40	3	60	427	13	0	0	40	60	427	14	5	50	31	14	443
Which statement best describes how you learn science?																						
A. I mostly read a textbook and answer questions, and/or take notes and do assignments. I use science kits for demonstrations and experiments.	51	3	15	12	60	3	15	2	10	448	50	16	63	16	5	450	25	5	48	34	13	443
B. I work in groups to design and conduct experiments.	13	0	0	1	20	3	60	1	20	438	13	0	20	60	20	438	27	4	46	37	13	442
C. I do a combination of A and B, but mostly A.	15	0	0	3	50	3	50	0	0	446	16	0	50	50	0	446	26	7	56	28	8	445
D. I do a combination of A and B, but mostly B.	21	1	13	1	13	3	38	3	38	438	21	13	13	38	38	438	22	9	55	26	9	446
Optional school/SAU question																						
A.	0										0											
B.	0										0											
C.	0										0											
D.	0										0											

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

N = Number